FORM PTO-1449 (Rev. 5/92)	225 F	UTHIER & CONNOR ranklin Street, Boston, lephone: (617) 426-91	MA 02/00 1 F	ATTORNEY DO			RIAL NO. 10/075,930
INF		icphone: (017) 420-91		APPLICANT: D			OUP: 2874
ST	ATEME	TION DISCLOS	CANTUN 3 U.	2004 5 FILING DATE:	rebruary 13, 2	UU2 EX	AMINER: Sanghavi, H.
			FRADE	MARRE			
			U.S. 1	PATENT DOCUMEN	TS		
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	AA	4,717,223	01/1988	Ishida et al.			
	AB	4,523,800	06/1985	Yamashita et al.			
	AC	5,606,448	02/1997	Suzuki et al.			
	AD	6,377,293	04/2002	Koh et al.			
	AE	6,560,384 B1	05/2003	Helkey et al.			
	AF	6,549,691	04/2003	Street et al.			
	AG						
	АH						
	AI						
	•		FOREIG	N PATENT DOCUM	ents (
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES' NO
·	AJ						
	AK						
	AL						
	i e	OTHER D	OCUMENT	S (Including Author, Title, D	ate, Pertinent P	ages, Etc.)	
EXAMINER INITIAL	<u> </u>						
	АМ						
	AN						
	AO						
EXAMINER	Do	an litry		DATE CON	NSIDERED	11/5/02	1
EXAMINER	k:	MPEP 609;	draw line	sidered, whether or through citation if copy of this form w	not in con	formance a	nd not

FORM PTO-1449 SAMUELS, GAUTHIER & STEVENS LLP 225 Franklin Street, Boston, MA 02110 Telephone: (617) 426-9180 (Rev. 5/92)

EINFORMATION DISCLOSURE

STATEMENT BY APPLICANT

ATTORNEY DOCKET NO. 6689-C

SERIAL NO. 10/075,930

APPLICANT: David C. Brown, et al.

GROUP: 2874

FILING DATE: February 13, 2002

EXAMINER: unknown

U.S. PATENT DOCUMENTS

		<u> </u>	<u></u>	7	1	<u> </u>	
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
ゴル	AA	4,365,863	12/28/1982	Broussaud			
	AB	4,436,260	03/13/1984	Donelan			
	AC	4,961,627	10/09/1990	Swain et al.			
	AD	5,185,675	02/09/1993	Banks			
	AE	5,208,880	05/04/1993	Riza et al.			ŕ
	AF	5,222,071	06/22/1993	Pezeshki et al.			
	AG	5,223,971	06/29/1993	Magel			
	АН	5,233,673	08/03/1993	Vali et al.			
	AI	5,253,033	10/12/1993	Lipchak et al.			
	AJ	5,253,098	10/12/1993	Hikita et al.			
	AK	5,255,332	10/19/1993	Welch et al.			-
	AL	5,268,974	12/07/1993	Hikita et al.			
	AM	5,345,521	09/06/1994	McDonald et al.			
	AN	5,373,393	12/13/1994	DeJule et al.			
	AO	5,682,449	10/28/1997	Taira-Griffin			
	AP	5,881,042	03/09/1999	Knight			
	AQ	5,927,798	07/13/1999	Aksyuk et al.			
	AR	5,943,159	08/24/1999	Zhu			
	AS	5,959,756	09/28/1999	Keyworth et al.			
	AT	5,963,682	10/05/1999	Dorschner et al.			·
	AU	6,002,818	12/14/1999	Fatehi et al.			
	AV	6,008,834	12/28/1999	Lewis et al.			·
	AW	6,031,946	02/29/2000	Bergmann et al.			
	AX	6,044,056	03/28/2000	Wilde et al.			
	AY	6,072,624	06/06/2000	Dixon et al.			08/30/1993
1	AZ	6,084,227	07/04/2000	Rhoads			07/30/1997

•					,		
コル	AAA	6,086,776	07/11/2000	Maynard			08/12/1996
1	AAB	6,097,860	08/01/2000	Laor			06/05/1998
IPE	AAC	6,104,478	08/15/2000	Giggenbach			01/15/1998
6	AAD	6,108,466	08/22/2000	Aksyuk et al.			09/17/1998
3 0·2004 (장)	AAE	6,137,941	10/24/2000	Robinson	1-1-		09/03/1998
MODINIE!	AAF	6,154,302	11/28/2000	Yagi et al.			11/13/1998
HOPMAN	AAG	6,163,643	12/19/2000	Bergmann et al.	1		08/12/1998
	AAH	6,173,105	01/09/2001	Aksyuk et al.	1		11/20/1998
	AAI	6,201,644	03/13/2001	Sakata et al.			11/12/1998
	AAJ	6,205,267	03/20/2001	Aksyuk et al.			11/20/1998
	AAK	6,300,619	10/09/2001	Aksyuk et al.			12/21/1997
			FOREIGI	N PATENT DOCUM	ENTS		30pg
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
						<u> </u>	
]	
EVALUED	1	OTHER I	OCCUMENTS	(Including Author, Title, D	ate, Pertinent l	Pages, Etc.)	
EXAMINER							
INITIAL							
	AAL	Motamedi, M. Optical Process 84-117	Edward et al. " sing II. The Inte	On-chip optical process rnational Society for Op	ing" Microe	lectronic Struc	tures and MEMS for 81, October 1996. pp.
INITIAL	AAL	Optical Process 84-117	ta Sheet, Rev 2	On-chip optical process	ing" Microe	lectronic Struc ering. Vol. 28	81, October 1996. pp.
JH		Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E.	ta Sheet, Rev 2 (4 pages) et al. "Microm	On-chip optical process rnational Society for Op	ing" Microe ptical Engine IEMS Optica	lectronic Struc ering. Vol. 28 al Switch Modu th 3 µs Respon	81, October 1996. pp.
TH コル	AAM	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec. Goossen, K.W. Mbit/sec Capab	ta Sheet, Rev 2. (4 pages) et al. "Micromhnology. Vol. 1, et al. "Siliconbility for Fiber-i	On-chip optical process rnational Society for Op. "5200-Series 64x64 Mechanical Fiber-Optic Ale, No. 9. September 19 Modulator Based on Mon-the-Loop Application	ing" Microe otical Engine IEMS Optica attenuator wi 1998. pp. 1661 Iechanically-	lectronic Struc ering. Vol. 28 al Switch Modu th 3 µs Respon 3-1670 Active Anti-Re	81, October 1996. pp. ule" Agere Systems, use" Journal of eflection Layer with
TH TH TH TH	AAM	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec. Goossen, K.W. Mbit/sec Capat No.9. Septemb Barber, B. et al	ta Sheet, Rev 2. (4 pages) et al. "Microm hnology. Vol. 1, et al. "Silicon pility for Fiber-iper 1994. pp.11." "A Fiber Con	On-chip optical process rnational Society for Op. "5200-Series 64x64 Mechanical Fiber-Optic Ale, No. 9. September 19 Modulator Based on Mon-the-Loop Application	ing" Microe otical Engine MEMS Optical Attenuator with 1998. pp. 1663 Icchanically- s" IEEE Photo able Optical	lectronic Struc ering. Vol. 28 al Switch Modu th 3 µs Respon 3-1670 Active Anti-Re otonics Techno	81, October 1996. pp. ule" Agere Systems, use" Journal of effection Layer with ulogy Letters. Vol. 6,
TH TH TH TH TH	AAM AAN AAO	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec Goossen, K.W. Mbit/sec Capah No.9. Septemb Barber, B. et al Technology Le Reid, J.Robert Force Institute	ta Sheet, Rev 2. (4 pages) et al. "Micromhnology. Vol. 1, et al. "Siliconpility for Fiber-iper 1994. pp.11 . "A Fiber Contters. Vol. 10, 1 et al. "Arrays 0 of Technology.	On-chip optical process mational Society for Op. "5200-Series 64x64 M. echanical Fiber-Optic A. 16, No. 9. September 19. Modulator Based on M. n-the-Loop Application 19-1121 nectorized MEMS Vari. No. 9. September 1998. of thermal micro-actuato The International Society.	ing" Microe otical Engine MEMS Optical Attenuator wi 1998. pp. 1665 Mechanically- s" IEEE Photo able Optical pp. 1262-12 rs coupled to ety for Optic	lectronic Struc ering. Vol. 28 al Switch Modu th 3 µs Respon 3-1670 Active Anti-Re otonics Techno Attenuator" II 164 o micro-optical al Engineering,	81, October 1996. pp. ule" Agere Systems, use" Journal of effection Layer with slogy Letters. Vol. 6, EEE Photonics components" Air , Vol. 2865. pp. 74-8
コル コル コナ コナ コト	AAM AAN AAO AAP	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec Goossen, K.W. Mbit/sec Capah No.9. Septemb Barber, B. et al Technology Le Reid, J.Robert Force Institute Walker, J.A. et WDM Fiber-To	ta Sheet, Rev 2. (4 pages) et al. "Micromhnology. Vol. i, et al. "Siliconpility for Fiberiper 1994. pp.11 . "A Fiber Contters. Vol. 10, 1 et al. "Arrays of Technology. al. "Performan	On-chip optical process mational Society for Op. "5200-Series 64x64 Mechanical Fiber-Optic Al6, No. 9. September 19 Modulator Based on Mon-the-Loop Application 19-1121 nectorized MEMS Varino. 9. September 1998. If thermal micro-actuato	ing" Microe ptical Engine Attenuator wi 1998. pp. 1661 Icchanically- s" IEEE Photo able Optical pp. 1262-12 rs coupled to ety for Optical cations of a	lectronic Structering. Vol. 28 al Switch Modulath 3 µs Responds-1670 Active Anti-Responds Technology Technolog	81, October 1996. pp ule" Agere Systems, use" Journal of eflection Layer with alogy Letters. Vol. 6, EEE Photonics components" Air , Vol. 2865. pp. 74-8 Optical Modulator for
コル コル コル コト コト コト	AAM AAO AAP AAQ	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec. Goossen, K.W. Mbit/sec Capab No.9. Septemb Barber, B. et al Technology Le Reid, J.Robert Force Institute Walker, J.A. et WDM Fiber-To pp. 601-606 Lau, K.Y. "MI pp. 11-18	ta Sheet, Rev 2. (4 pages) et al. "Microm hnology. Vol. 1, et al. "Silicon bility for Fiber-iper 1994. pp.11. "A Fiber Contters. Vol. 10, 1 et al. "Arrays of Technology. al. "Performanto-The-Home Sy	On-chip optical process mational Society for Optical Society for Optical Society for Optical Mechanical Fiber-Optic Ale, No. 9. September 19 Modulator Based on Monthe-Loop Application 19-1121 Mectorized MEMS Variano. 9. September 1998. If thermal micro-actuato The International Societies and Packaging Implistems" IEEE Electronic for Optical Beam Manip	ing" Microe otical Engine Attenuator with 1998. pp. 1665 Icchanically-s" IEEE Photo able Optical pp. 1262-12 rs coupled to ety for Optical cations of a component pulation" Ci	lectronic Structering. Vol. 28 al Switch Modulath 3 µs Responsible 1670 Active Anti-Resolution Technology Attenuator If 164 and Engineering, MEMS Based as and Technology requits and Device the structure of the	81, October 1996. pp ule" Agere Systems, use" Journal of effection Layer with slogy Letters. Vol. 6, EEE Photonics components" Air , Vol. 2865. pp. 74-8 Optical Modulator for ogy Conference. 199 ices, IEEE. July 1997
# フル フル フル フル フル フル フル	AAM AAO AAP AAQ AAR	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec. Goossen, K.W. Mbit/sec Capab No.9. Septemb Barber, B. et al Technology Le Reid, J.Robert Force Institute Walker, J.A. et WDM Fiber-To pp. 601-606 Lau, K.Y. "MI pp. 11-18 Ford, James E. Structures and	ta Sheet, Rev 2. (4 pages) et al. "Microm hnology. Vol. 1, et al. "Silicon pility for Fiber-iper 1994. pp.11. "A Fiber Contters. Vol. 10, 1 et al. "Arrays of Technology. al. "Performanto-The-Home Syem of Technology. The Home Syem of Technology.	On-chip optical process rnational Society for Optical Series 64x64 Mechanical Fiber-Optic A 16, No. 9. September 19 Modulator Based on Monthe-Loop Application 19-1121 Mectorized MEMS Variano. 9. September 1998. If thermal micro-actuato The International Societies and Packaging Implistems" IEEE Electronic for Optical Beam Manipoupled Variable Attenuational Processing III. The	ing" Microe otical Engine Attenuator wi 1998. pp. 1665 [echanically-s" IEEE Photo able Optical pp. 1262-12 rs coupled to ety for Optical cations of a loc Component pulation" Ciator Using a	lectronic Structering. Vol. 28 al Switch Modulath 3 µs Responsible 1670 Active Anti-Resolution Technology Attenuator" If 164 an incro-optical al Engineering, MEMS Based (is and Technology reuits and Devi	81, October 1996. pp ule" Agere Systems, use" Journal of effection Layer with slogy Letters. Vol. 6, EEE Photonics components" Air , Vol. 2865. pp. 74-8 Optical Modulator for ogy Conference. 199 ices, IEEE. July 199 ator" Microelectronic
コル コル コト コト コト コト コト	AAM AAN AAO AAP AAQ AAR AAS	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec. Goossen, K.W. Mbit/sec Capah No.9. Septemb Barber, B. et al Technology Le Reid, J.Robert Force Institute Walker, J.A. et WDM Fiber-Topp. 601-606 Lau, K.Y. "MI pp. 11-18 Ford, James E. Structures and Vol. 3226, Sep Glockner, Steff Microelectronic	ta Sheet, Rev 2. (4 pages) et al. "Micromhnology. Vol. 1, et al. "Siliconpility for Fiber-iper 1994. pp.11 . "A Fiber Contters. Vol. 10, 1 et al. "Arrays of Technology. al. "Performant of The-Home Symbol." EM's the Word et al. "Fiber-Contember 1997.pp. an and Goring, of Structures and	On-chip optical process rnational Society for Optical Society for Optical Process of Society for Optical Fiber-Optic And Modulator Based on Monthe-Loop Application 19-1121 (Society of Society of Soc	ing" Microe otical Engine Attenuator wire 1998. pp. 1665 Icchanically- s" IEEE Photo able Optical pp. 1262-12 rs coupled to cty for Optical cations of a lactor Using a Internationa ber-Optic Sw	lectronic Strucering. Vol. 28 al Switch Modulath 3 µs Responsible 1670 Active Anti-Resotonics Technology Attenuator" IF 1664 an incro-optical al Engineering, MEMS Based is and Technology recuits and Devi	81, October 1996. pp ule" Agere Systems, use" Journal of effection Layer with alogy Letters. Vol. 6, EEE Photonics components" Air , Vol. 2865. pp. 74-8 Optical Modulator for ogy Conference. 199 ices, IEEE. July 199 ator" Microelectronic optical Engineering.
コル コル コト コト コト コト コト	AAM AAN AAO AAP AAQ AAR AAS AAT	Optical Process 84-117 Preliminary Da Inc. July 2001. Ford, James E. Lightwave Tec. Goossen, K.W. Mbit/sec Capat No.9. Septemb Barber, B. et al Technology Le Reid, J.Robert Force Institute Walker, J.A. et WDM Fiber-To pp. 601-606 Lau, K.Y. "MI pp. 11-18 Ford, James E. Structures and Vol. 3226, Sep Glockner, Steff Microelectronic Engineering. V CLEO '95. "Si	ta Sheet, Rev 2. (4 pages) et al. "Microm hnology. Vol. 1, et al. "Silicon bility for Fiber-iper 1994. pp.11. "A Fiber Contters. Vol. 10, 1 et al. "Arrays of Technology. al. "Performanto-The-Home Syem of Technology. EM's the Word et al. "Fiber-Come Syem of Technology. EM's the Word et al. "Fiber-Come Syem of Technology. EM's the Word et al. "Fiber-Come Syem of Technology. EM's the Word et al. "Fiber-Come Syem of Technology. EM's the Word et al. "Fiber-Come Syem of Technology. EM's the Word et al. "Fiber-Come Syem of Technology. EM's the Word et al. "Fiber-Come of Technology. EM's et al.	On-chip optical process mational Society for Optical Society for Optical Process 64x64 Mechanical Fiber-Optic Ale, No. 9. September 19 Modulator Based on Monthe-Loop Application 19-1121 Mectorized MEMS Variano. 9. September 1998. If thermal micro-actuato The International Societies and Packaging Implistems" IEEE Electronic for Optical Beam Manipoupled Variable Attenuated Processing III. The 86-93 Rolf. "Multichannel Fi	ing" Microe otical Engine Attenuator with 1998. pp. 1665 [echanically-s" IEEE Photosis Photosis IEEE Photosis of a light of the pulation of	lectronic Strucering. Vol. 28 al Switch Modulath 3 µs Responsible 1670 Active Anti-Resolution Technology Techn	81, October 1996. pp ule" Agere Systems, use" Journal of effection Layer with alogy Letters. Vol. 6, EEE Photonics components" Air , Vol. 2865. pp. 74-8 Optical Modulator for ogy Conference. 199 ices, IEEE. July 199 ator" Microelectronic optical Engineering. In MOEM Systems" nal Society for Optical

. *

January 1996. pp. 53-39

Goring, Rolf et al. "Miniaturized optical switches based on piezoelectrically driven microprism arrays"

Miniaturized Systems with Micro-Optics and Micromechanics. The International Society for Optical

EXAMINER

DATE CONSIDERED

Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

